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16523 US PTO

**UTILITY PATENT APPLICATION TRANSMITTAL**  
 (Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No. 42P17964  
 (maximum 12 characters)

First Name Inventor Kumar et al.

Title: A METHOD AND SYSTEM TO DETERMINE WHETHER A CIRCULAR QUEUE IS EMPTY OR FULL

Express Mail Label No. EV320119356US

ADDRESS TO: **Mail Stop Patent Application  
 Commissioner for Patents  
 P.O. Box 1450  
 Alexandria, Virginia 22313-1450**

**APPLICATION ELEMENTS**

See MPEP chapter 600 concerning utility patent application contents.

1.  Fee Transmittal Form (e.g., PTO/SB/17)  
 (Submit an original and a duplicate for fee processing)
2.  Applicant Claims Small Entity Status. (37 CFR 1.27)
3.  Specification (Total Pages 34)  
 (preferred arrangement set forth below)
  - Descriptive Title of the Invention
  - Cross Reference to Related Applications
  - Statement Regarding Fed sponsored R & D
  - Reference sequence listing, a table,  
 or a computer program listing appendix
  - Background of the Invention
  - Brief Summary of the Invention
  - Brief Description of the Drawings (if filed)
  - Detailed Description
  - Claim(s)
  - Abstract of the Disclosure
4.  Drawings(s) (35 USC 113) (Total Sheets 8)
5.  Oath or Declaration (Total Pages       )
  - a.  Newly Executed (Original or Copy)
  - b.  Copy from a Prior Application (37 CFR 1.63(d))  
 (for Continuation/Divisional with Box 18 completed)
    - i.  DELETIONS OF INVENTOR(S) Signed statement attached deleting  
 inventor(s) named in the prior application, see 37 CFR 1.63(d)(2)  
 and 1.33(b).
    - c.  Unsigned.
6.  Application Data Sheet. (37 CFR 1.76)
7.  CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)
8.  Nucleotide and/or Amino Acid Sequence Submission  
 (if applicable, all necessary)
  - a.  Computer Readable Form (CRF)
  - b.  Specification Sequence Listing on:
    - i.  CD-ROM or CD-R (2 copies); or
    - ii.  paper
  - c.  Statements verifying identity of above copies

031354 U.S.PTO  
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**ACCOMPANYING APPLICATION PARTS**

9. \_\_\_\_\_ Assignment Papers (cover sheet & documents(s))
10. \_\_\_\_\_ a. Separate 37 CFR 3.73(b) Statement (where there is an assignee)  
\_\_\_\_\_ b. Power of Attorney
11. \_\_\_\_\_ English Translation Document (if applicable)
12.  a. **Information Disclosure Statement (IDS)/PTO-1449 (or PTO/SB/08)**  
 b. **Copies of IDS Citations**
13. \_\_\_\_\_ Preliminary Amendment
14.  **Return Receipt Postcard (MPEP 503) (Should be specifically itemized)**
15. \_\_\_\_\_ Certified Copy of Priority Document(s) (if foreign priority is claimed)
16. \_\_\_\_\_ Nonpublication Request under 35 U.S.C. 122(b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.
- 17A. \_\_\_\_\_ Claim for Foreign Priority
- 17B.  Other: separate sheet with title, express mail label number, copy of postcard, and attorney's signature

17C.  Pursuant to 37 C.F.R. 1.136(a)(3), applicant(s) hereby request and authorize the U.S. Patent and Trademark Office to (1) treat any concurrent or future reply that requires a petition for extension of time as incorporating a petition for extension of time for the appropriate length of time and (2) charge all required fees, including extension of time fees and fees under 37 C.F.R. 1.16 and 1.17, to Deposit Account No. 02-2666.

18. If a **CONTINUING APPLICATION**, check appropriate box, and supply the requisite information below and in the first sentence of the specification following the title (e.g., by way of preliminary amendment), or in an Application Data Sheet Under 37 C.F.R. 1.76:

Continuation       Divisional       Continuation-in-part (CIP)  
Of Prior Application No.: \_\_\_\_\_ Examiner \_\_\_\_\_ Group Art Unit \_\_\_\_\_  
(which is a  continuation/  divisional/  CIP of prior application no. \_\_\_\_\_,  
which is a  continuation/  divisional/  CIP of prior application no. \_\_\_\_\_) (List entire chain of priority)

Applicant(s): Also include a Preliminary Amendment to amend the specification to claim priority.  
For CONTINUATION AND DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

19. Correspondence Address  
Customer Number or Bar Code Label \_\_\_\_\_  
here) \_\_\_\_\_ or \_\_\_\_\_ (Insert Customer No. or Attach Bar Code Label  
 Correspondence Address Below  
NAME Cory G. Claassen  
ADDRESS BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP  
12400 Wilshire Boulevard  
Seventh Floor  
CITY Los Angeles STATE California ZIP CODE 90025  
Country U.S.A. TELEPHONE (206) 292-8600 FAX (206) 292-8606

Name (PRINT/TYPE): Cory G. Claassen Registration No.: 50,296  
Signatur : Cory G. Claassen Date: Dec. 12, 2003

# FEE TRANSMITTAL FOR FY 2004

(FY 2004 Begins 10/01/2003)

**TOTAL AMOUNT OF PAYMENT (\$)** 1,126.00

**C mplete if Known:**

Application No. New Patent Application  
 Filing Date Herewith  
 First Named Inventor Kumar et al.  
 Examiner Name Not Yet Assigned  
 Art Unit Not Yet Assigned  
 Attorney Docket No. 42P17964

       Applicant claims small entity status. See 37 CFR 1.27.

## METHOD OF PAYMENT (check all that apply)

Check     Credit Card     Money Order     Other     None

Deposit Account

Deposit Account Number: 02-2666

Deposit Account Name: \_\_\_\_\_

The Director is authorized to do the following with respect to the above-identified Deposit Account:

Charge fee(s) indicated below.

Credit any overpayments.

Charge any additional fees during the pendency of this application.

Any concurrent or future reply that requires a petition for extension of time should be treated as incorporating an appropriate petition for extension of time and all required fees should be charged.

Charge fee(s) indicated below except for the filing fee.

## FEE CALCULATION

### 1. BASIC FILING FEE

Large Entity	Small Entity	Fee Description	Fee Paid
Fee	Fee	Fee	Fee
Code	(\$)	Code	(\$)
1001	770	2001	385
1002	340	2002	170
1003	530	2003	265
1004	770	2004	385
1005	160	2005	80
		Utility application filing fee	<u>770</u>
		Design application filing fee	_____
		Plant filing fee	_____
		Reissue filing fee	_____
		Provisional application filing fee	_____

SUBTOTAL (1) \$ 770

### 2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

	Extra Claims	Fee from below	Fee Paid
Total Claims	<u>35</u>	<u>- 20** = 15</u>	X <u>18</u> = <u>270</u>
Independent Claims	<u>4</u>	<u>- 3** = 1</u>	X <u>86</u> = <u>86</u>
Multiple Dependent			=

\*\*Or number previously paid, if greater; For Reissues, see below.

Large Entity	Small Entity	Fee Description
Fee	Fee	Fee
Code	(\$)	Code
1202	18	2202 9
1201	86	2201 43
1203	290	2203 145
1204	86	2204 43
1205	18	2205 9
		Claims in excess of 20
		Independent claims in excess of 3
		Multiple d p nd nt claim, if not paid
		**Reissu independent claims over original pat nt
		**Reissue claims in excess of 20 and over original pat nt

SUBTOTAL (2) \$ 356

**FEE CALCULATION (continued)****3. ADDITIONAL FEES**

<u>Large Entity</u>	<u>Small Entity</u>	<u>Fee Description</u>	<u>Fee Paid</u>
F Code	Fee (\$)	F Code	Fee (\$)
1051	130	2051	65
1052	50	2052	25
1053	130	1053	130
1812	2,520	1812	2,520
1813	8,800	1813	8,800
1804	920*	1804	920*
1805	1,840*	1805	1,840*
1251	110	2251	55
1252	420	2252	210
1253	950	2253	475
1254	1,480	2254	740
1255	2,010	2255	1,005
1401	330	2401	165
1402	330	2402	165
1403	290	2403	145
1451	1,510	1451	1,510
1452	110	2452	55
1453	1,330	2453	665
1501	1,330	2501	665
1502	480	2502	240
1503	640	2503	320
1460	130	1460	130
1807	50	1807	50
1806	180	1806	180
8021	40	8021	40
1809	770	2809	385
1814	110	2814	55
1810	770	2810	385
1801	770	2801	385
1802	900	1802	900
1504	300	1504	300
1505	300	1505	300
1803	130	1803	130
1808	130	1808	130
1454	1,330	1454	1,330

Other fee (specify) \_\_\_\_\_

Other fee (specify) \_\_\_\_\_

**SUBTOTAL (3) \$ 0**

\*Reduced by Basic Filing Fee Paid

**SUBMITTED BY:**Typed or Printed Name: Cory G. ClaassenSignature: [Signature] Date: Dec. 12, 2003Reg. Number: 50,296 Telephone Number: (206) 292-8600

Send to: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450

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Our Reference: 42P17964

Patent

A METHOD AND SYSTEM TO DETERMINE WHETHER A CIRCULAR QUEUE IS  
EMPTY OR FULL

Inventors: Alok Kumar and Uday R. Naik

Respectfully submitted,

BLAKELY SOKOLOFF TAYLOR & ZAFMAN LLP



Cory G. Claassen  
Reg. No. 50,296

"Express Mail" mailing label number: EV320119356US

Date of Deposit: December 12, 2003

I hereby certify that I am causing this paper or fee to be deposited with the United States Postal Service "Express Mail Post Office to Addressee" service on the date indicated above and that this paper or fee has been addressed to Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450

Adrian Villarreal

(Typed or printed name of person mailing paper or fee)

 December 12, 2003

(Signature of person mailing paper or fee)

(Date signed)

Serial/Patent No.:	<u>New Patent Application</u>	Filing/Issue Date:	<u>Herewith</u>
Client:	<u>Intel Corporation</u>		
Title:	<u>A METHOD AND SYSTEM TO DETERMINE WHETHER A CIRCULAR QUEUE IS EMPTY OR FULL</u>		
BTZ File No.:	<u>42P17964</u>		
Date Mailed:	<u>December 12, 2003</u>		
The following has been received in the U.S. Patent & Trademark Office on the date stamped hereon:			
<input checked="" type="checkbox"/> Amendment/Response (____ pgs.) <input type="checkbox"/> Express Mail No. <u>EV320119356US</u> <input checked="" type="checkbox"/> Check No. <u>3255</u>			
<input type="checkbox"/> Appeal Brief (____ pgs.) (in triplicate) <input type="checkbox"/> Month(s) Extension of Time <input type="checkbox"/> Amount: <u>\$1126.00</u>			
<input checked="" type="checkbox"/> Application - Utility ( <u>34</u> pgs., with cover and abstract) <input type="checkbox"/> Information Disclosure Statement & PTO-1449 (____ pgs.) <input type="checkbox"/> Check No. _____			
<input type="checkbox"/> Application - Rule 1.53(b) Continuation (____ pgs.) <input type="checkbox"/> Issue Fee Transmittal <input type="checkbox"/> Amount: _____			
<input type="checkbox"/> Application - Rule 1.53(b) Divisional (____ pgs.) <input type="checkbox"/> Notice of Appeal			
<input type="checkbox"/> Application - Rule 1.53(b) CIP (____ pgs.) <input type="checkbox"/> Petition for Extension of Time			
<input type="checkbox"/> Application - Rule 1.53(d) CPA Transmittal (____ pgs.) <input type="checkbox"/> Petition for _____			
<input type="checkbox"/> Application - Design (____ pgs.) <input type="checkbox"/> Postcard			
<input type="checkbox"/> Application - PCT (____ pgs.) <input type="checkbox"/> Power of Attorney (____ pgs.)			
<input checked="" type="checkbox"/> Application - Provisional (____ pgs.) <input type="checkbox"/> Preliminary Amendment (____ pgs.)			
<input type="checkbox"/> Assignment and Cover Sheet <input type="checkbox"/> Reply Brief (____ pgs.)			
<input checked="" type="checkbox"/> Certificate of Mailing <input type="checkbox"/> Response to Notice of Missing Parts			
<input type="checkbox"/> Declaration & POA (____ pgs.) <input type="checkbox"/> Small Entity Declaration for Indep. Inventor/Small Business			
<input type="checkbox"/> Disclosure Docs & Orig & Copy of Inventor's Signed Letter (____ pgs.) <input checked="" type="checkbox"/> Transmittal Letter, in duplicate			
Drawings: <u>8</u> # of sheets includes <u>11</u> figures <input type="checkbox"/> Fee Transmittal, in duplicate			
Other: <u>Certificate of Mailing with a copy of return postcard signed by the attorney</u>			